

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/005420

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C215/54 C07C213/00 C07C43/23 C07C39/12 A61K31/137

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 382 600 A (JOENSSON ET AL) 17 January 1995 (1995-01-17) cited in the application column 2, line 35 column 3, line 20 - line 21 column 3, line 58 - line 60 column 4, line 65 - line 66 column 5, line 1 column 5, line 18 - line 21 column 5, line 30 - line 46 column 8, line 4 - line 6 examples 3a,4b,5d,9g,22; compounds 4,4A,4B	1-33
Y		1-3,5, 13, 15-24, 26,27, 29-33

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex. —

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

3 May 2005

Date of mailing of the international search report

25/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Mercey, J

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/005420

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 922 914 A (GAGE ET AL) - 13 July 1999 (1999-07-13) column 4, line 57; examples 3,4	1-33
X	US 2003/199582 A1 (HAWLEY MICHAEL ET AL) 23 October 2003 (2003-10-23) example 1	1-33
X	WO 03/035599 A (PHARMACIA & UPJOHN COMPANY; RICHARDS, IVAN; CAMMARATA, SUE, K; WEGNER,) 1 May 2003 (2003-05-01) example 1	1-33
Y	KEESE R ET AL: "Crystallisation" FUNDAMENTALS OF PREPARATIVE ORGANIC CHEMISTRY, 1982, pages 18-20, XP002310738 the whole document	1-3,13, 24,29-33
Y	T. W. GREENE & P. G. M. WUTS: "Protective Groups in Organic Synthesis" 1991, JOHN WILEY & SONS, XP002327043 page 145 - page 149	5
Y	ANDERSSON P G ET AL: "ASYMMETRIC TOTAL SYNTHESIS OF (+)-TOLTERODINE, A NEW MUSCARINIC RECEPTOR ANTAGONIST, VIA COPPER-ASSISTED ASYMMETRIC CONJUGATE ADDITION OF ARYL GRIGNARD REAGENTS TO 3-PHENYL-PROP-2-ENOYL-OXAZOLIDINONES" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 63, no. 22, 1998, pages 8067-8070, XP001037685 ISSN: 0022-3263 compound 11	15-23, 26,27

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2004/005420

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 31-32 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005420

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5382600	A	17-01-1995	AT 65990 T	15-08-1991
			AU 635493 B2	25-03-1993
			AU 2932989 A	11-08-1989
			CA 1340223 C	15-12-1998
			DE 19875024 I2	26-09-2002
			DE 68900180 D1	12-09-1991
			DK 172590 A	19-07-1990
			EP 0325571 A1	26-07-1989
			EP 0354234 A1	14-02-1990
			ES 2029384 T3	01-08-1992
			FI 109900 B1	31-10-2002
			GR 3002854 T3	25-01-1993
			HK 64494 A	15-07-1994
			HU 58040 A2	28-01-1992
			HU 9400053 A3	30-01-1995
			JP 2664503 B2	15-10-1997
			JP 3503163 T	18-07-1991
			LU 90259 A9	16-09-1998
			NL 980020 I1	01-09-1998
			NO 903085 A ,B,	11-07-1990
			WO 8906644 A1	27-07-1989
US 5922914	A	13-07-1999	AT 226949 T	15-11-2002
			AU 717985 B2	06-04-2000
			AU 5956998 A	31-07-1998
			AU 7404398 A	03-07-1998
			CA 2273789 A1	09-07-1998
			CA 2274851 A1	18-06-1998
			CN 1238768 A ,C	15-12-1999
			CZ 9902272 A3	17-11-1999
			DE 69716767 D1	05-12-2002
			DE 69716767 T2	12-06-2003
			DK 960109 T3	25-11-2002
			EP 0956273 A1	17-11-1999
			EP 0960109 A1	01-12-1999
			ES 2186018 T3	01-05-2003
			FI 991477 A	29-06-1999
			HK 1023566 A1	24-09-2004
			HU 0000527 A2	28-11-2001
			JP 2002509564 T	26-03-2002
			JP 2001507691 T	12-06-2001
			NO 993247 A	09-08-1999
			NZ 336533 A	26-05-2000
			PL 334375 A1	28-02-2000
			PT 960109 T	31-03-2003
			RU 2176246 C2	27-11-2001
			SI 960109 T1	30-04-2003
			SK 81599 A3	10-12-1999
			WO 9825862 A1	18-06-1998
			WO 9829402 A1	09-07-1998
US 2003199582	A1	23-10-2003	AU 2003237724 A1	10-11-2003
			BR 0309439 A	15-02-2005
			CA 2483092 A1	06-11-2003
			EP 1496882 A1	19-01-2005
			HR 20040990 A2	31-12-2004
			WO 03090734 A1	06-11-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005420

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03035599	A	01-05-2003	BR 0206207 A	23-12-2003
			CA 2464223 A1	01-05-2003
			EP 1461306 A1	29-09-2004
			NO 20032938 A	25-08-2003
			WO 03035599 A1	01-05-2003
			US 2003158176 A1	21-08-2003
<hr/>				